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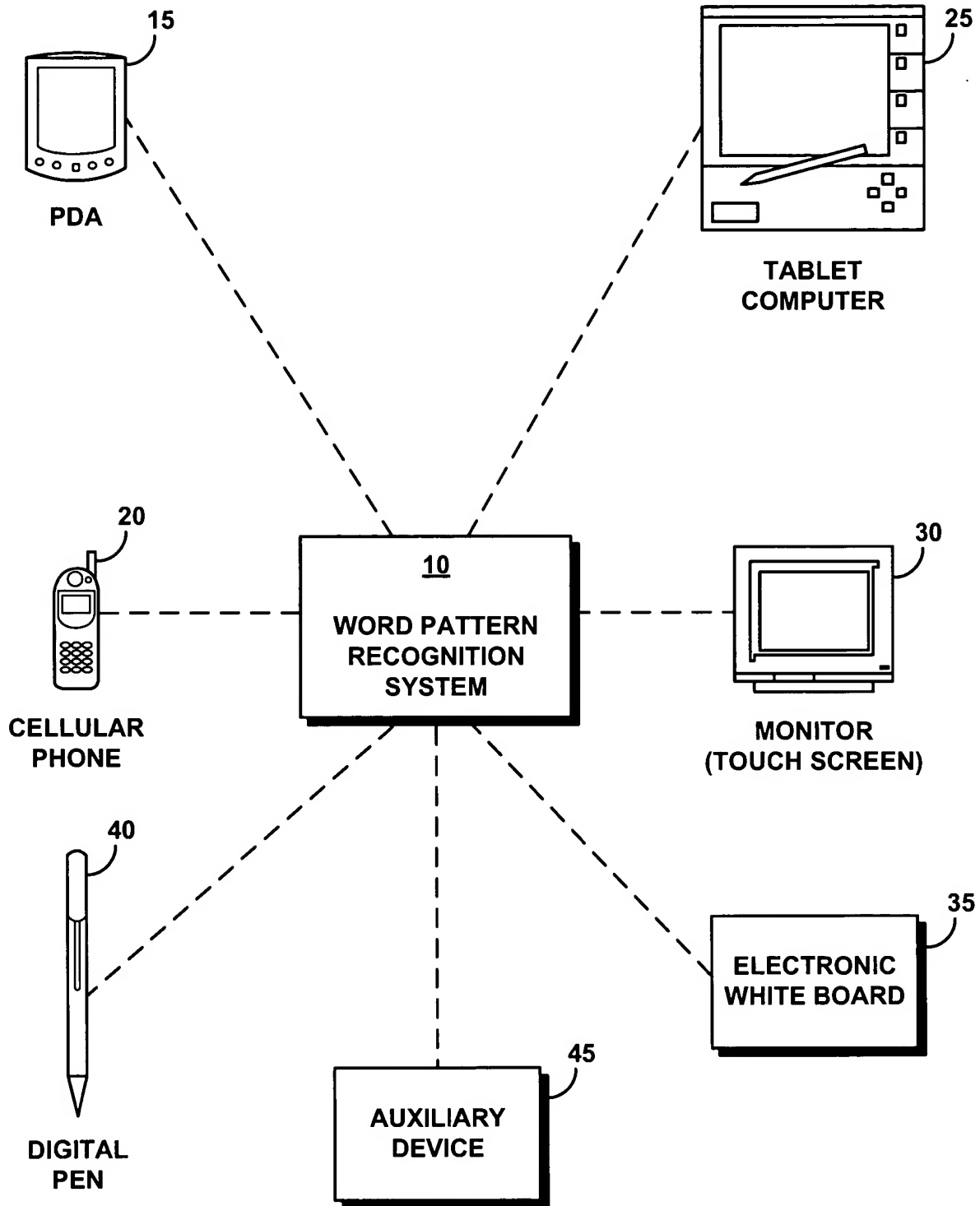


FIG. 1

2/14

10

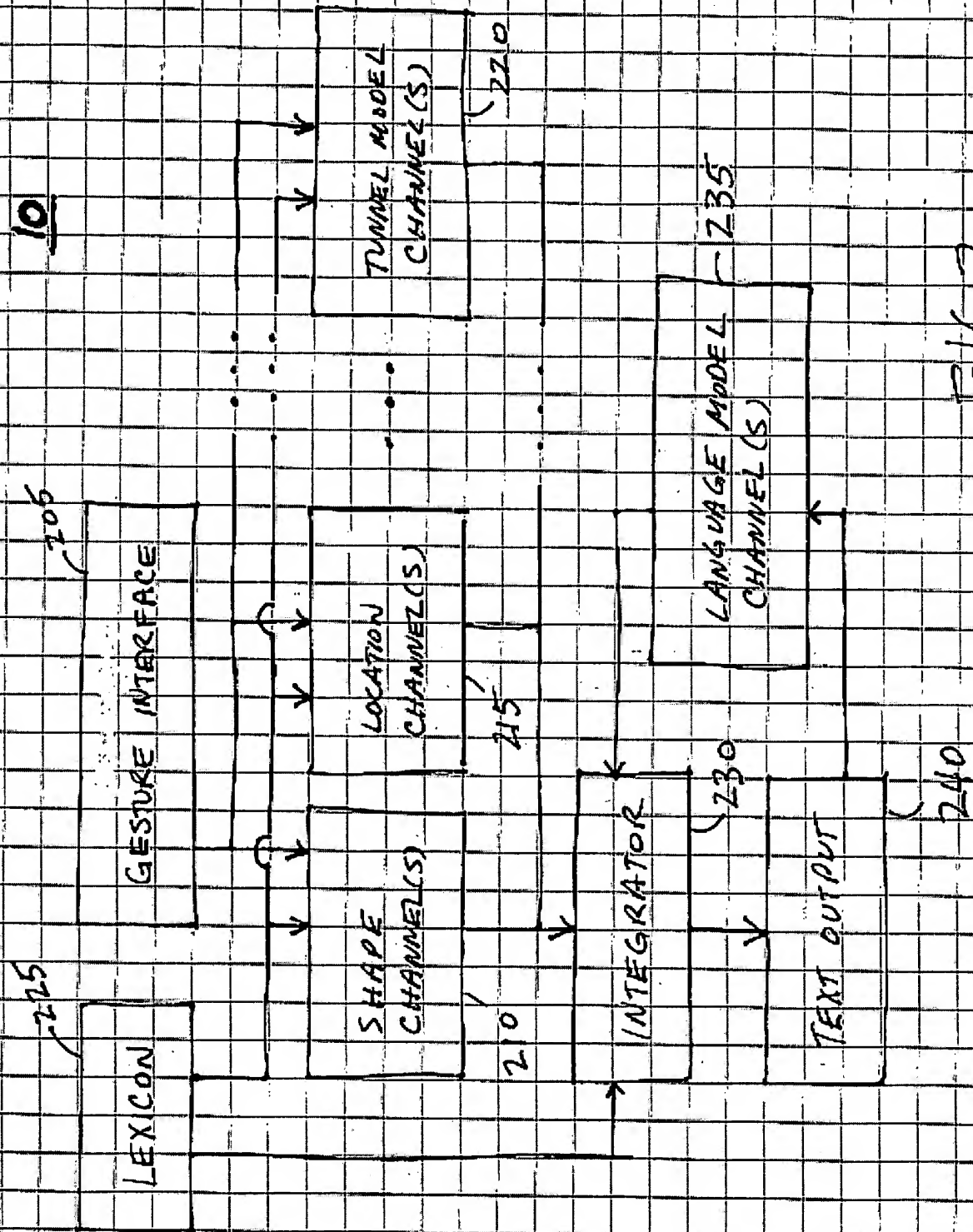


FIG 2

3/14

300

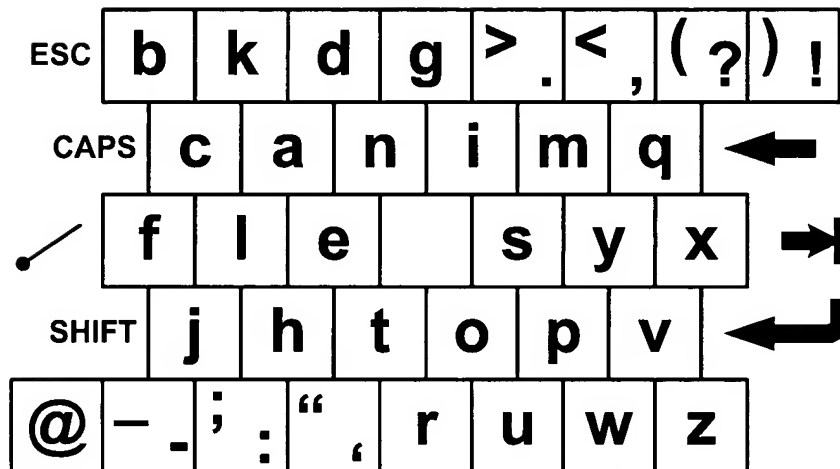


FIG. 3

4/14

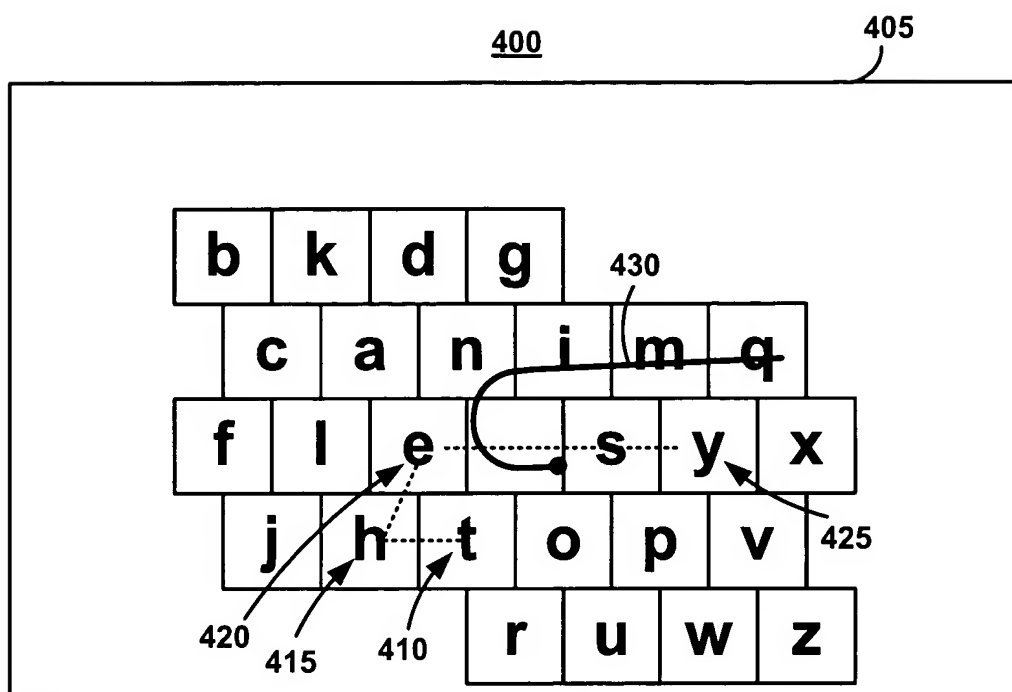


FIG. 4A

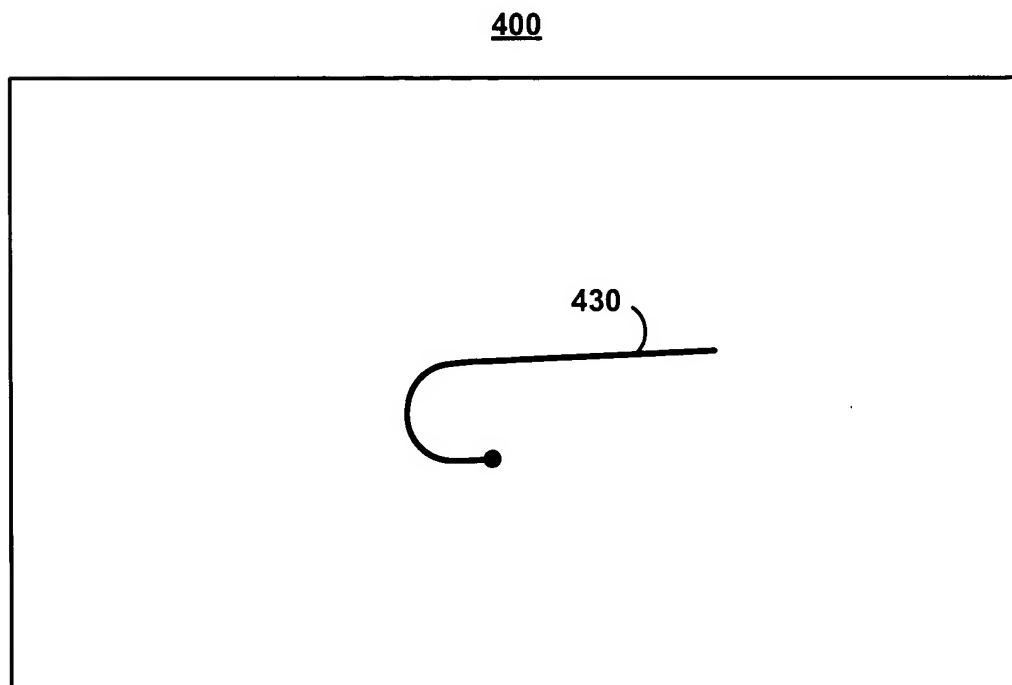
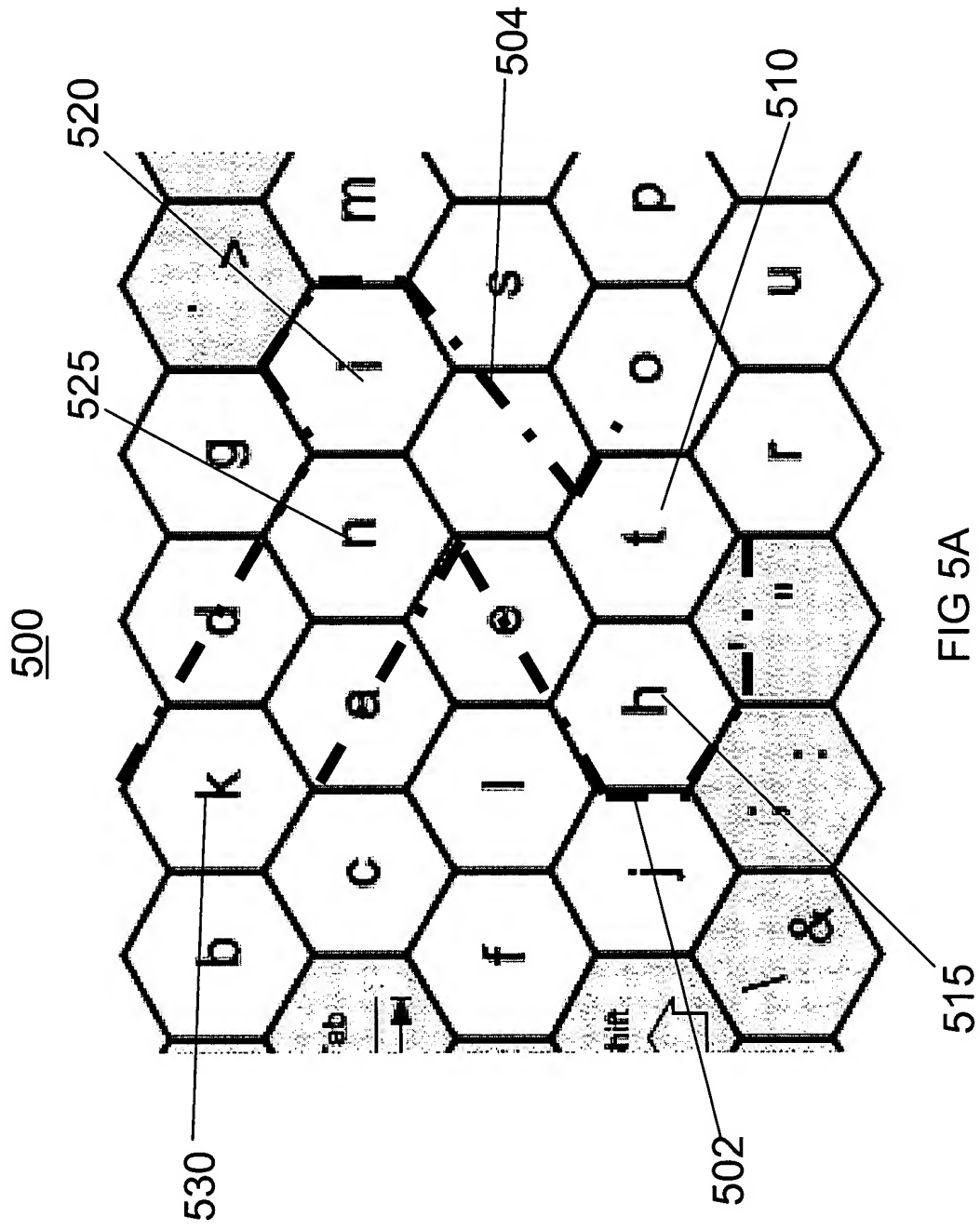
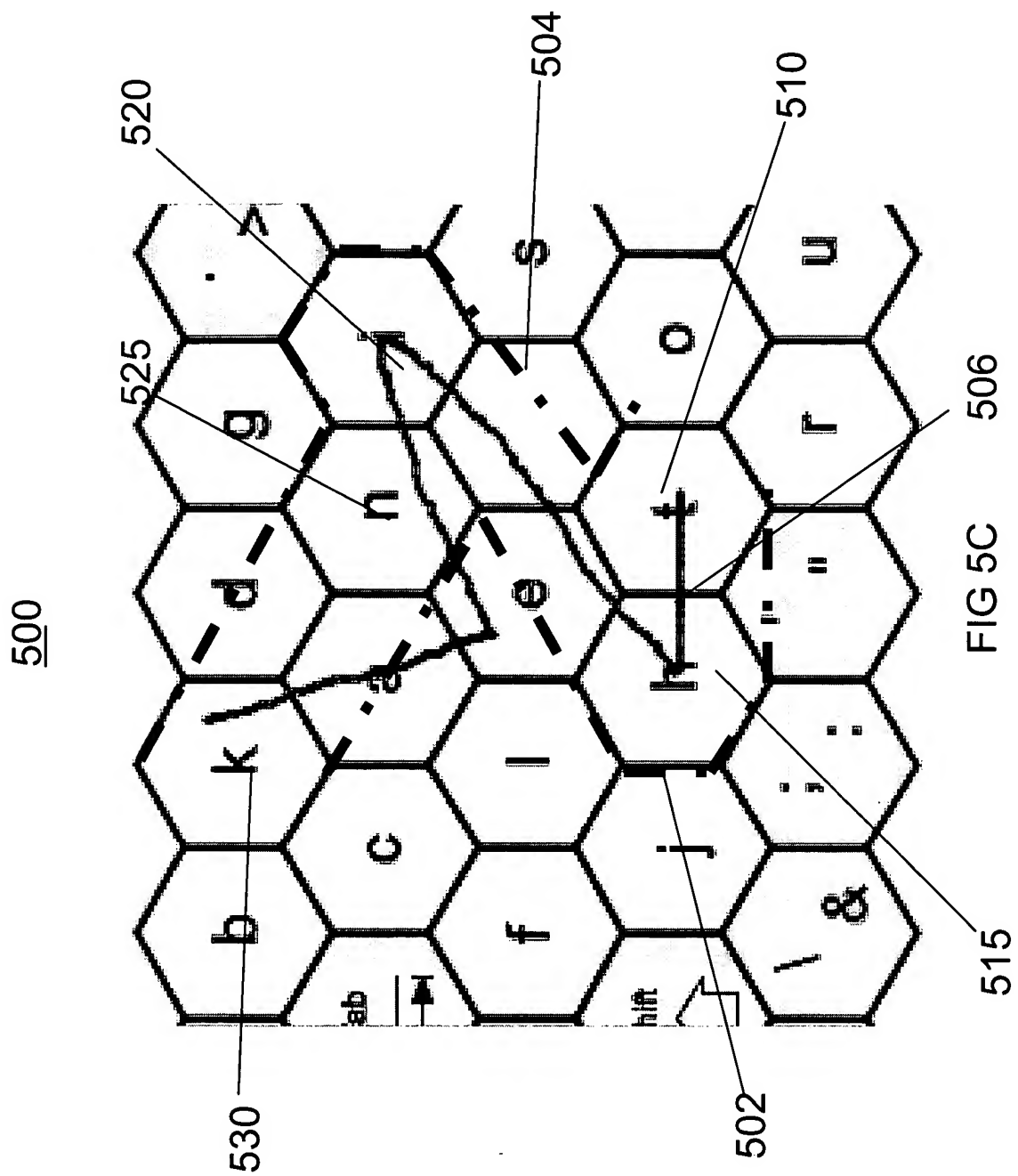


FIG. 4B

5/14





8/14

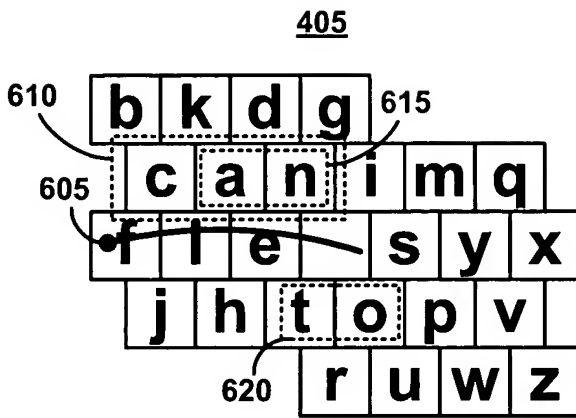


FIG. 6A

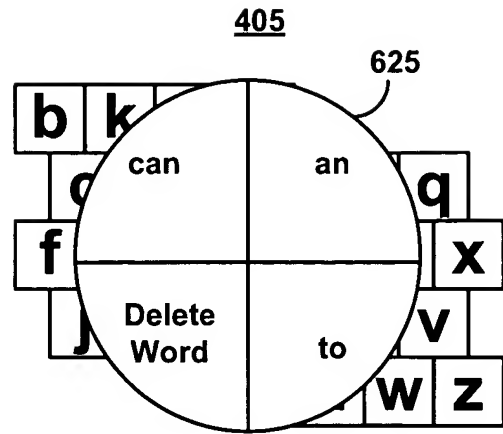


FIG. 6B

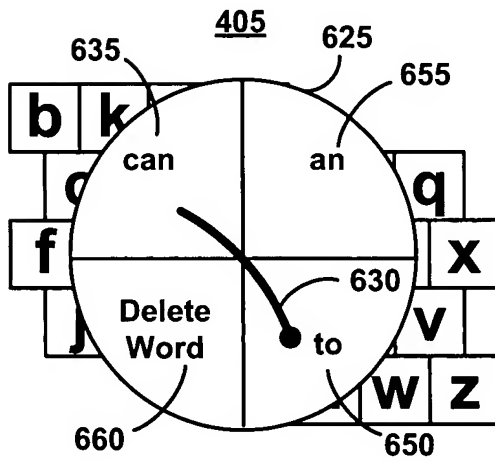


FIG. 6C

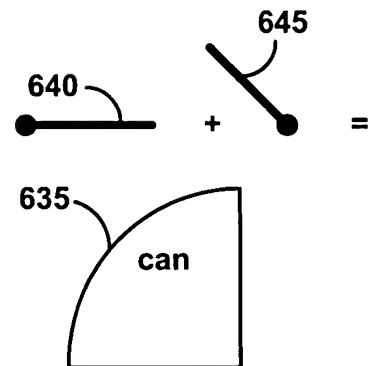


FIG. 6D

9/14

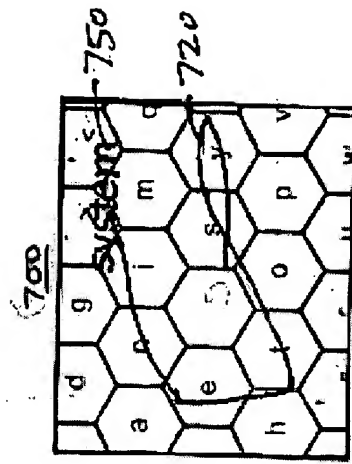


FIG. 7A

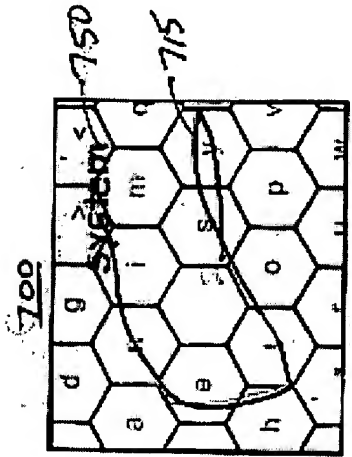


FIG. 7B

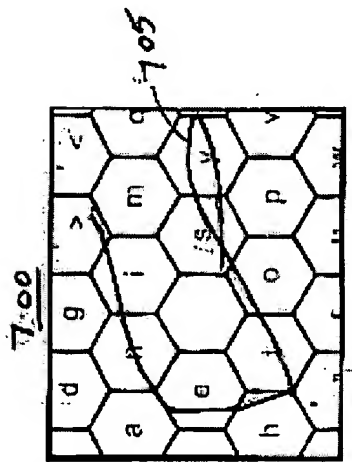


FIG. 7C

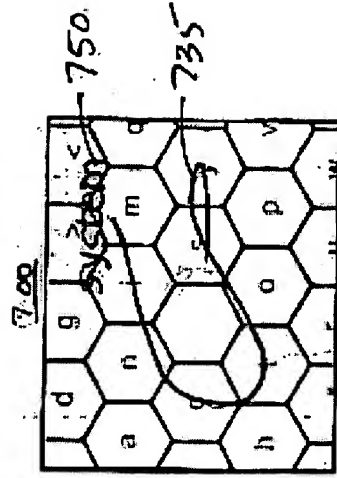


FIG. 7D

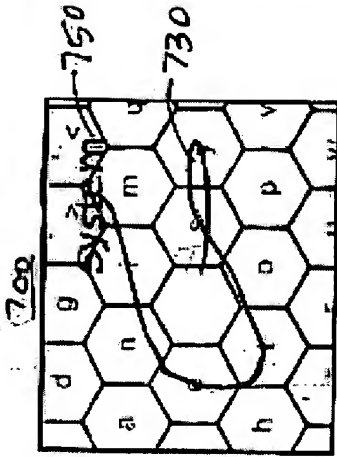


FIG. 7E

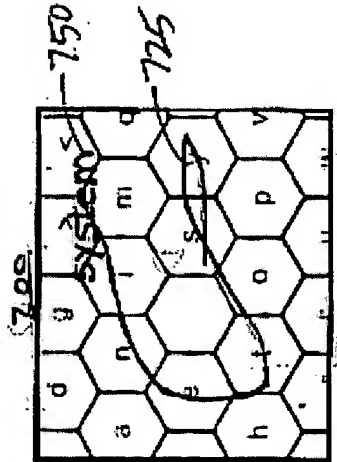


FIG. 7F

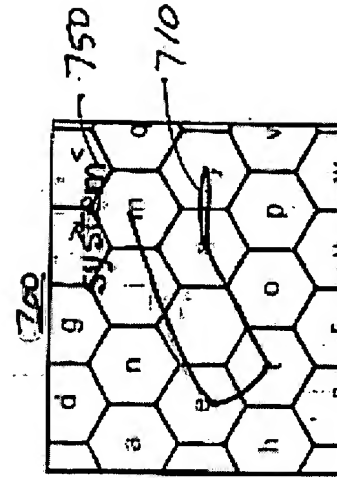


FIG. 7G

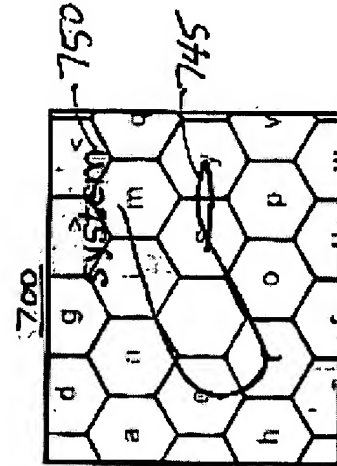


FIG. 7H

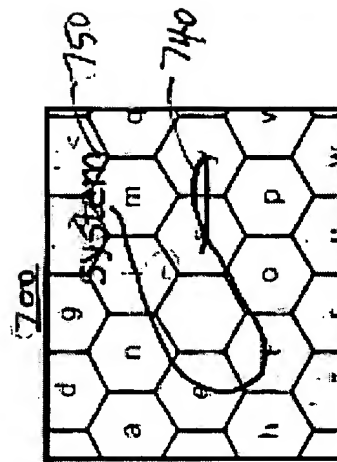
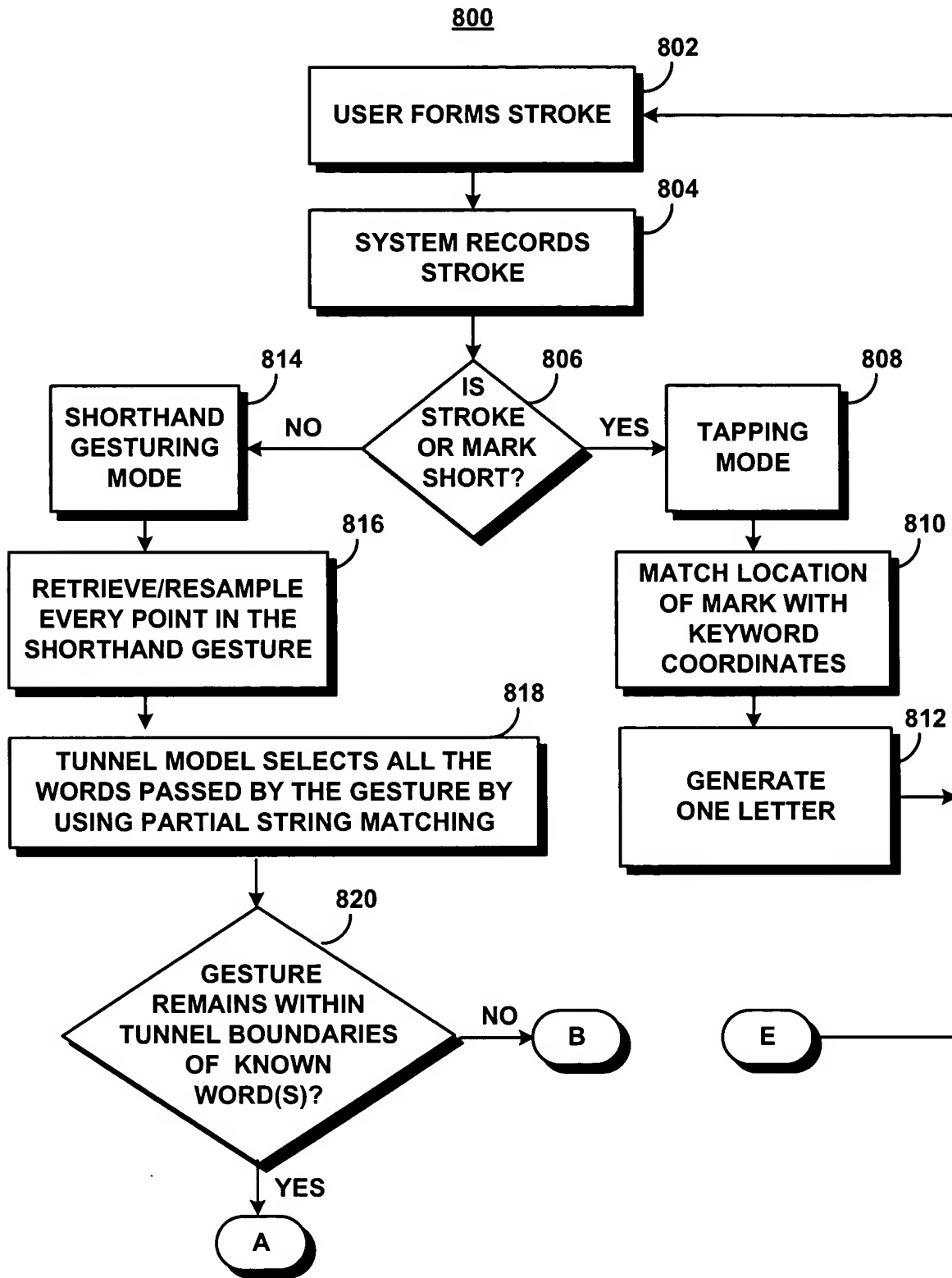


FIG. 7I

10/14

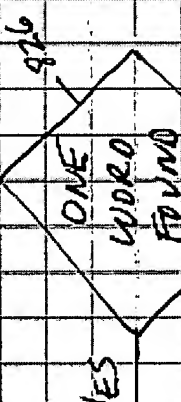


800

[B]

TUNNEL MODEL CHANNEL
SELECTS MATCHING WORD(S)

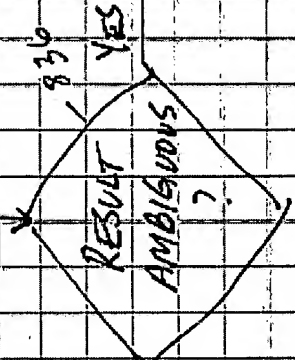
OUTPUT WORD(S) TO INTEGRATOR



[C]

834

SELECT BEST MATCHED WORD
WITH INPUT FROM LANGUAGE
MODEL CHANNEL



[C]

[A] [B]

LOCATION CHANNEL
DETERMINES LOCATION,
COMPARES WITH
TEMPLATES

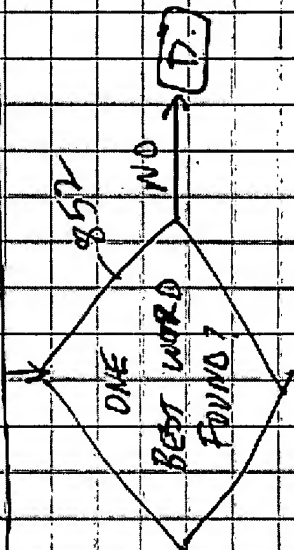
840

SELECT MATCHING
WORD(S), ASSIGN
MATCH PROBABILITY

OUTPUT TO INTEGRATOR

848

INTEGRATOR SELECTS BEST MATCHED WORD
WITH INPUT FROM LANGUAGE
MODEL CHANNEL



[C]

FIG. 8B

11/14

[A] [B]

SHAPE CHANNEL
DETERMINES SHAPE,
COMPARES WITH
TEMPLATES

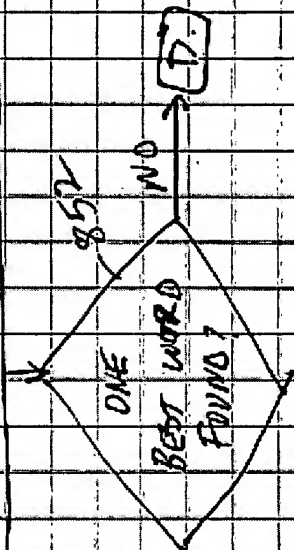
844

SELECT MATCHING
WORD(S), ASSIGN
MATCH PROBABILITY

OUTPUT TO INTEGRATOR

850

INTEGRATOR SELECTS BEST MATCHED WORD
WITH INPUT FROM LANGUAGE
MODEL CHANNEL



[C]

FIG. 8B

11/14

12/14

800

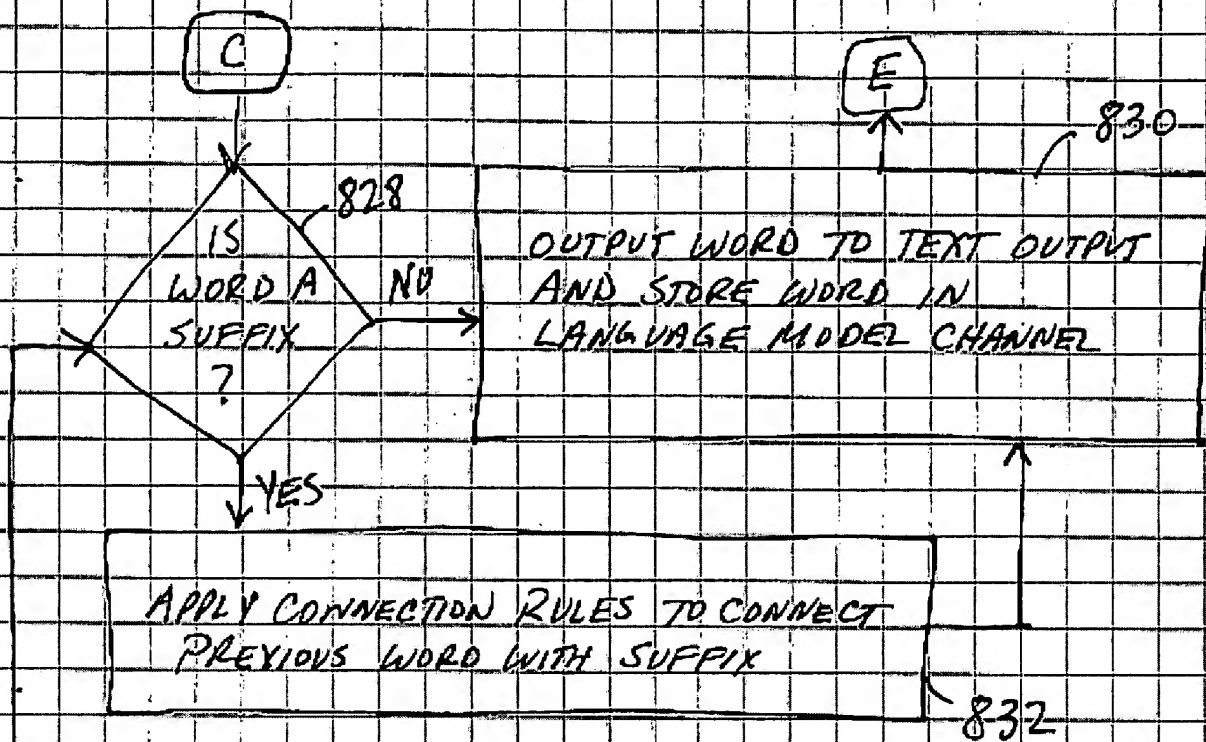
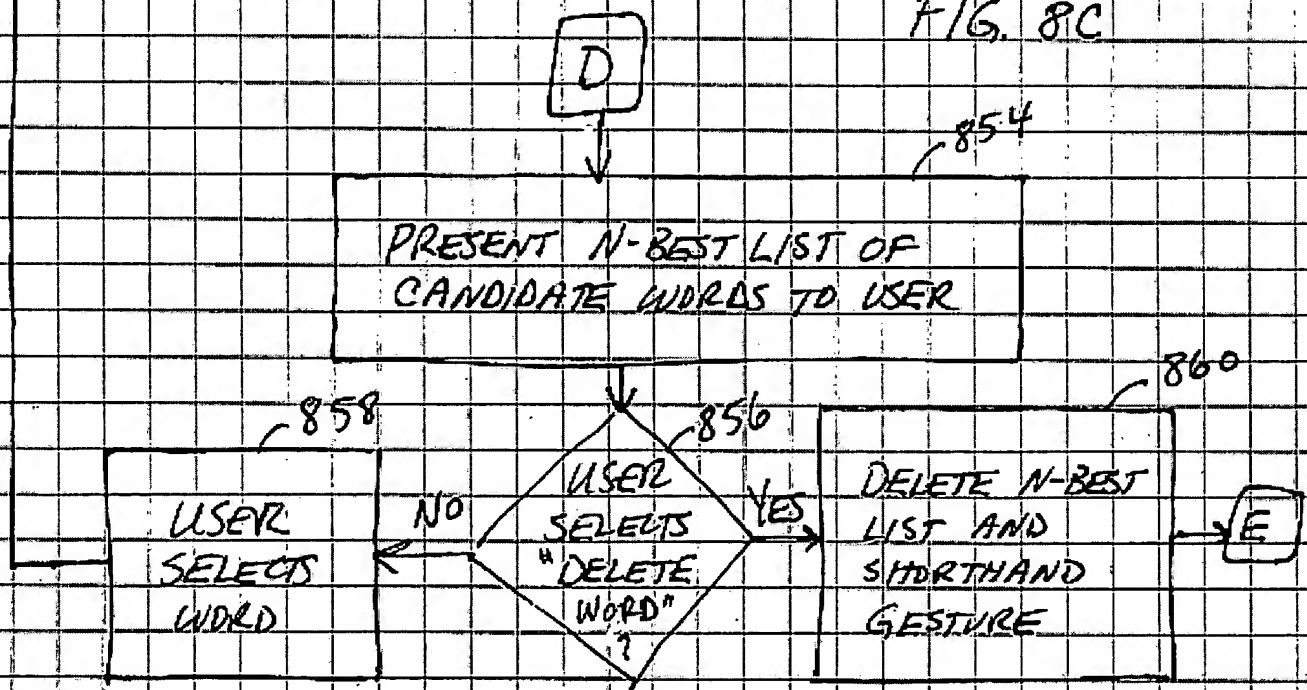
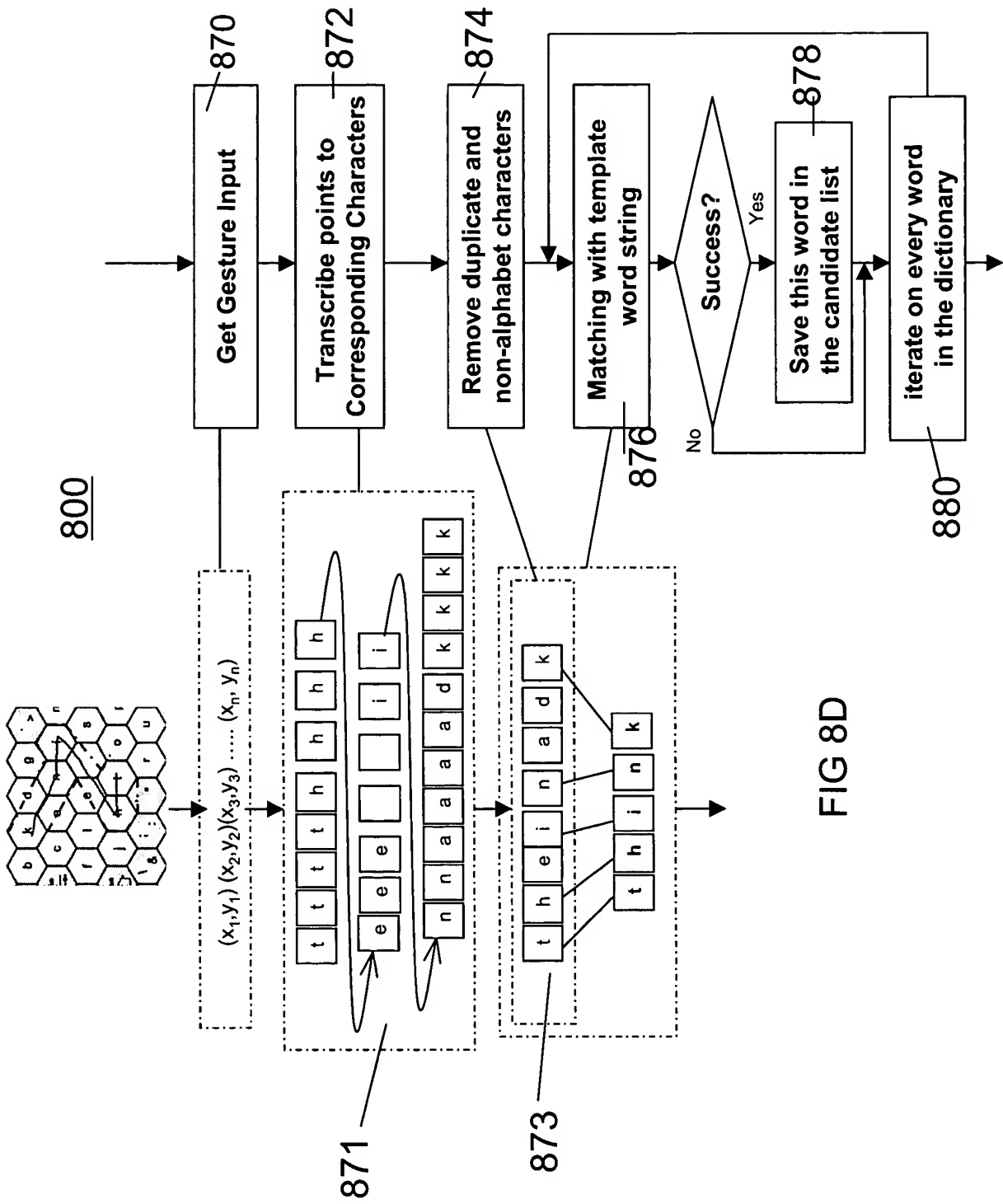


FIG. 8C



13/14



14/14

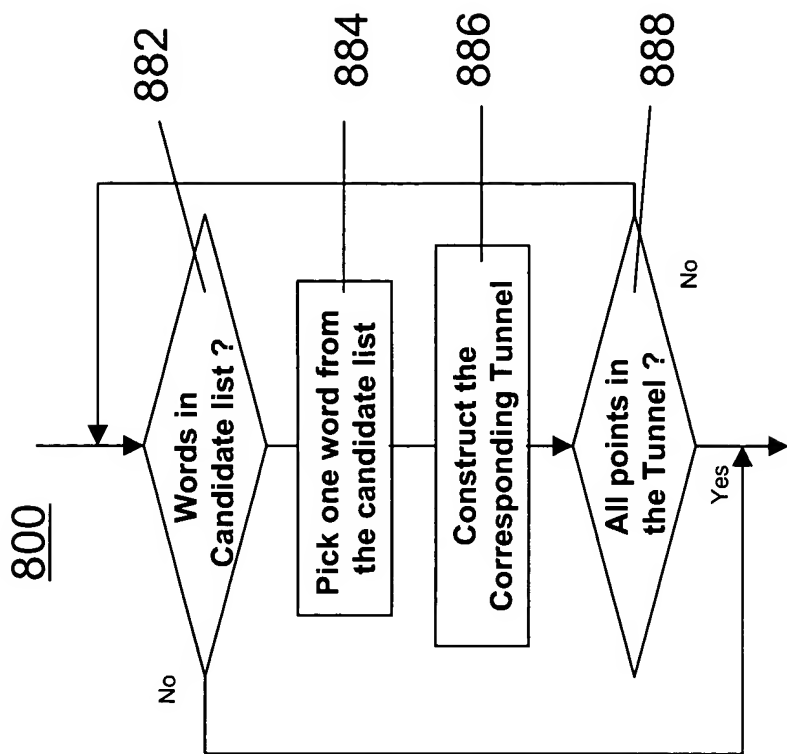


FIG 8E